

TABLE 2

NM1964	Early growth response protein 1 (EGR1)
NM599	human Insulin-like growth factor binding protein 5 (IGFBP5)
M87771	Fibroblast growth factor receptor k-sam, Splice 3 (k-sam-III)
Z24725	H sapiens Mitogen-inducible gene (mig-2)
M64347	human Novel growth factor receptor (FGFR3)
M80634	human Keratinocyte growth factor receptor (FGFR2) (SEQ ID NO:1)
Z14228	Nuclear mitotic apparatus protein 1, Alt. Splice Form 2 (NuMA Clone U4)
X67951	human Proliferation-associated gene (PAGA)
AF036268	SH3-domain GRB2-like 2
AF060877	regulator of G-protein signalling 20
AL049538	ras association (RalGDS/AF-6) domain containing protein JC265
D14838	fibroblast growth factor 9 (glia-activating factor)
D26070	inositol 1,4,5-trisphosphate receptor, type 1
J02902	protein phosphatase 2 (formerly 2A), regulatory subunit A (PR 65), alpha isoform
J04513	fibroblast growth factor 2 (basic)
L05624	mitogen-activated protein kinase kinase 1
M64788	RAP1, GTPase activating protein 1
M87771	fibroblast growth factor receptor 2 (bacteria-expressed kinase, keratinocyte growth factor receptor, craniofacial dysostosis 1, Crouzon s yndrome, Pfeiffer syndrome, Jackson-Weiss syndrome)
M96995	growth factor receptor-bound protein 2
U09759	mitogen-activated protein kinase 9
U24152	p21/Cdc42/Rac1-activated kinase 1 (STE20 homolog, yeast)
U49857	transcriptional activator of the c-fos promoter
W28432	Cluster Incl. W28432:47f2 Homo sapiens cDNA /gb=W28432 /gi=1308443 /ug=Hs.92030 /len=921
X07109	protein kinase C, beta 1
X54938	inositol 1,4,5-trisphosphate 3-kinase A
Z71929	fibroblast growth factor receptor 2 (bacteria-expressed kinase, keratinocyte growth factor receptor, craniofacial dysostosis 1, Crouzon s yndrome, Pfeiffer syndrome, Jackson-Weiss syndrome)
NM_004794	RAB33A, member RAS oncogene family
NM_002844	protein tyrosine phosphatase, receptor type, K
M14752	M14752 HUMABLA Human c-abl gene [GenBank==M14752
NM_005252	v-fos FBJ murine osteosarcoma viral oncogene homolog
NM_002229	jun B proto-oncogene
NM_014813	KIAA0806 gene product
AB007943	AB007943:Homo sapiens mRNA for KIAA0474 protein [GenBank==AB007943

NM_004067	chimerin (chimaerin) 2
NM_003676	degenerative spermatocyte homolog, lipid desaturase (Drosophila)
NM_000830	glutamate receptor, ionotropic, kainate 1
NM_002487	necdin homolog (mouse)
NM_002921	retinal G protein coupled receptor
NM_001390	dystrobrexin, alpha
NM_006000	tubulin, alpha 1 (testis specific)
NM_001634	S-adenosylmethionine decarboxylase 1
NM_006931	solute carrier family 2 (facilitated glucose transporter), member 3
NM_003832	phosphoserine phosphatase-like
NM_005010	neuronal cell adhesion molecule
NM_002073	guanine nucleotide binding protein (G protein), alpha z polypeptide
L24123	L24123:Homo sapiens NRF1 protein (NRF1) mRNA /cds=UNKNOWN /gb=L24123 /gi=438646 /ug=Hs.83469 /len=4992 [GenBank==L24123
NM_000810	gamma-aminobutyric acid (GABA) A receptor, alpha 5
NM_005398	protein phosphatase 1, regulatory (inhibitor) subunit 3C
AI526089	AI526089:DU3.2-7.H07.r Homo sapiens cDNA [GenBank==AI526089
NM_000840	glutamate receptor, metabotropic 3
NM_012249	ras-like protein TC10
NM_004791	integrin, beta-like 1 (with EGF-like repeat domains)
NM_000615	neural cell adhesion molecule 1
NM_003916	adaptor-related protein complex 1, sigma 2 subunit
NM_001406	ephrin-B3
NM_001718	bone morphogenetic protein 6
X66358	X66358 cds#2 HSSTHPKB H.sapiens mRNA KKIALRE for serine/threonine protein kinase [GenBank==X66358
D00654	actin, gamma 2, smooth muscle, enteric
U19599	U19599 HSU19599 Human (BAX delta) mRNA [GenBank==U19599
NM_006908	ras-related C3 botulinum toxin substrate 1 (rho family, small GTP binding protein Rac1)
NM_002374	microtubule-associated protein 2
AJ001612	phosphoserine phosphatase-like
NM_000293	phosphorylase kinase, beta
NM_020217	hypothetical protein DKFZp547I014
NM_004379	cAMP responsive element binding protein 1
NM_032041	neurocalcin delta
NM_015716	Misshapen/NIK-related kinase
AF059274	Homo sapiens cDNA FLJ37320 fis, clone BRAMY2018106
NM_006158	neurofilament, light polypeptide 68kDa

NM_002730 protein kinase, cAMP-dependent, catalytic, alpha
NM_003885 cyclin-dependent kinase 5, regulatory subunit 1 (p35)

11398517 v1

Table 4: Summary

Genbank Accession No.	AnCg BP	AnCg MD	DLPFC BP	DLPFC MD	CB BP	CB MD	flags
D50310		up			up		1
L08485			up				1, 2, 3
U28964					up		1
AF016917				up		up	1, 3
L19182				down			1
AJ001612		up	down	up	down	up	1, 3
U66879				up			1
J04046		up					1
X63575		up		up	up		1, 3
S74445				up			1, 2, 3
X71490	up		up	up	up		1
AF112471		up		up			1, 2, 3
AB006626		up					1
U37143		down		down			1, 3
AC004131	up	down	up	down		down	1
M29273		down	up	down			1, 2
X76220	up		up				1, 2
M12267			up				3
AF060877		down		down		down	1
AB018305				down			1, 2
U58334		down		down		down	1
AB020629	up	down	up	down			1, 3
U37122		down		down			1, 3
AL080061		down		down	down	down	1, 3
M34309		down		down			1
M80634 (SEQ ID NO:1)		down		down			1
M64347		down		down			1
X57206		down		down		down	1, 3
X77196		down		down			1, 3
Z24725		down		down		down	1
AB018342		down		down			1, 3
Y10275			down			up	1, 3
AB007943	down						1
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M14758			down	down		down	3

X13839				down					3
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X04098	up			up			up		3
AF006082	up							down	3
D67031		down		down				down	3
L22214				up					3
J03473				up					3
AJ236876	up		up						
AF072902		up	up						
U84011				down				down	
K02215	up						up	up	
AI800578		down		down				down	
AL049954									
R59606		down		down					
M80899		down		down					2, 3
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AA114830				up					
U81607				up					3
M90360	down			down					
X15414	up			up					3
U05861				up					
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K03000								down	2
U46689								down	3
U24267	down			up					
M93405				down					3
U34252	up								3
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M21154	up			up			up		3
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M63175				up			up		
AB028994		down							
U29926				down					
X81438	up		up	up					3
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X97074	up		up	up					2

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U34846			down				down			2, 3
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AF049884			up							3
U02570							down		down	
AB002292							down			
U50523			up							3
A1525393	up									3
AF006087	up						up			2, 3
AF006088					up					3
Z11501							up			
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M27396			up		up					3
S67156			down				down			
AL096842			down				down			
AB018258							down			
J05096			down				down		down	2
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W28508							down			
AF007876			down				down			
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AF047436			up		up					3
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J03037			down	up	down			3
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U20325				up				2
AB002376			up				down	
AL035079	up			up				
AF070648			down		down			
L10822	up				up			
AF091433					down			
AF026166	up			up				3
X74801	up			up				3
AF026292	up							3
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AF023158			down					
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W27541			down		down			
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AF006484			down		down			3
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X77743	up			up				3
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U60061			up				3
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U66198				up			3
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Z69641		down					
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W26655	up		up				
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V01512		down		down	down	down	
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M84562	down						
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AB014560			up				3
AI565760			up				3
AJ225028			up				3
M82919				up	up		3
X15376				up	up		3

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D00723				up				down	3
Y13286	up			up					3
S40719		down				down		down	3
D87467				up					
M65188		down							3
X52947		down				down		down	3
M57609			down			down			3
U33267	up	up		up					3
X76648		up							3
AB020645		up		up					2, 3
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U08997		down							
X59834		down				down		down	3
U43083	up					up			3
D90150	up	up							
AF017656				up		up	up		
AJ238764				up					3
AL049367						down			
AB020662	down	down				down		down	
AF047438	down								3
M22632		up		up					3
AF016004		down		up		down		down	3
D38449						up			3
U87460	up	down		up		down		down	
AJ011001						down			
X71973		up							2, 3
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M81886	up					up			3
U10301						up			3
X82068	up								3
L19058	down								3
S40369						up		up	
X77748	up			up					2, 3
D87119		down				down	down	down	3
D87119		down				down	down	down	3

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M16594	down						down	
J05459						up		2, 3
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M37583		up	up					3
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AL034374		down	up		down		down	
AI391567			down					3
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AB014555		down						3
X58536		down			down			
M32578					down			
U23803			up					3
X12671			up					
M16342			up					3
D89678			up					3
U01923			up					3
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X92814			up					2
X99209	up							
AF068754			up					3
M11717		down					down	
L26336	up	up	up		up		up	
L26336	up	up	up		up			
L26336	up	down	up		down		down	
L26336	up				down			

L12723	up								2
X87949									3
X13794	up	up							
Y00371	up	up			up				
L15189	up								2, 3
AL021937					up				
X15183					up				3
J04988	up	up							
W28616									
M22382					up				3
AJ912041					up				2, 3
X57830		up							2, 3
AI434146					down				3
AF012023					up				
X77956						down		down	
AL022726						down			
U49283	up	up							
AA522698	up	up							3
X17025					up				3
U66042		up				up			
M24594	up								3
X16302		up				up			
AB017563					down				2
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X77567						up		up	3
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X07979					down				2
AL021786					down				
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AB016492	up	up							
J04111	up	up							
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AF070523					up				

D79994									
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U52155		down							3
U39196						up			
Y15065		up							3
D26067				up					3
D31887				up				up	3
D14663				up					3
AL049250	down		down	down					
D87074		up						down	
D87443	up							down	3
D87445									
AB002347				up					
AB002361	up								
AB007903				up					3
AB007963						down		down	
AB011095						down	down		
AB014526		down				down			
AB014544		down				down	down	down	
AB018335		down				down			
AB020637				up					
AB020661						down		down	
AB023152	up								
AB023209		down				down			
AB023230		down				down			3
AB028972	up	up					up		
AB028977	down								3
AB029034						down		down	
AF070621				up					3
Y08319	up								3
AB002357				up					3
AF035621	up	up				up			3
U59919				up					3
AJ001685		down				down			
J04182	up			up				down	3
U36336		down		up		down		down	3
Y11395	up			up					

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Z48051					up		down		
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Y11681	up		up		up		up	up	3
AL050361					up				3
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AF013570					down		down		2, 3
AF001548	down				down		down		2
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AI345944		up					3
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AA527880	up						3
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AF050640	up			up			3
AI541336		up					3
AC005329	up			up			
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Y16241		down			down		3
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D23662		up					
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X64318				up			3
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AF019415		down			down		
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X73066	up	up		up			2, 3
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U41816	down								3
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X84908				up					
U45976				up				down	3
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Z29090	down								3
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U49070			up					up	
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AF001691			up				down		3
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J02902			up						

J02902									
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M29551									2
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U44772									3
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X67951				up					2
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D87258			down			down		down	
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M85169	up			up					3
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D00762	up			up					3
D00761	up			up					3
D26598	up								2, 3
D26600	up			up					3
D26600	up			up					3
D29011	up			up					2
D29012	up								3
D38048	up		up						3
AF035309			up						
D44466	up								2, 3
AL031177	up			up					
AB009398	up			up					2, 3

D78151	up								3
U51007		up							
D50063			up						3
D38047	up	up							3
D38047	up								3
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D14694	up								
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AI207842		down			down				3
U33284					up				
M14630					down				
M57399		down			down				2, 3
M57399	down	down			down				2, 3
X54131		down							
L77886	up								
Z48541	up				up				2
D64053	up								
M93426		down			down			down	2, 3
X63578						up			2
Z48054	down								3
AL031781		down							
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M28209	up		up						3
AL050268			up						3
AL050268			up						3
U59877	down	down			down				3
AI189226		down			down				
D14889	up		up						3
D14889	up		up		up				3
M28212	up					up			3
AJ133534	up		up				up		3
X98001			up						
D25274			up						
U41654			up						2, 3

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AJ001515						down			
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D12676	up						up		3
M25756				up			down	down	2
AF070614				up					3
L10338	down								3
AF049498	up		up			up		up	2, 3
AB011178			down			down		down	
AB007937						down	down		
AB015345	up		up			up	up		
X97064				up					3
AJ131245				up					3
AF055006	up								3
AF054184			up	up					2, 3
U73167			down			down			
AB000220				up					
AB002438			down			down		down	
Z11793						down			
D86957			down			down		down	3
AI743134			down			down		down	
Z81326				up					3
D28423	up						up		
AL031681	up							down	
L41887				up				down	
Y00757			up	up					2
AF036268			up	up		up			3
AB007960			down			down			
U33760			up	up			up		
W26700	up		up			up	up		
U08989						up			3
U01824			down			down			3
W28850			down						3

D26443		down		down		down	3
H10201				down			
X60036			up				3
M20681	up	up					3
AF007216		down		down		down	2, 3
AF011390		down			up		2, 3
AF015926		down		down			3
D86959			up			down	
U96094	up				up	up	3
D80000			up			down	2, 3
X59960	up		up				3
AF053136		up					2
AL049650	up	up		up			
AA733050	up	up					
U40571				down			3
AF034546			up				3
X02317			up				3
X63753			up			down	3
AJ001183				down			2
Z46629		down		down		down	
AB011088	down			down			
J03040				down		down	
J04765	up		up				
AF052124	up		up			down	
AF039843		down		down		down	
Y08685			up			down	3
D78130			up				3
M32313				up			2
M32886		down		down			3
U88666			up				3
J00306	up						2
AI636761	up						2, 3
AB011107		down		down		down	
L78440		up		up			
U04735	up		up	up	up		
M86752				up	up		
X99325	up	up		up	up		2, 3

AF099989				up				down	3
M31303				up					2
X85116		down				down		down	
AL035306				up					3
U77942								down	2
D63506						down		down	
U34804		up							
U40215	up	up				up	up		3
AF039945		down							2
U93305		up				up			
X68194		down		up		down		down	3
D38522				up					
U18062	up			up					3
M95787	down			down					
AF010400	up			up					
AL050265				up					3
AL050107						down		down	
D50495	up								2
M80627		down				down		down	
D15050		down				down		down	
U19969	down							down	
X52882		up							3
U49188		up		up					
L24804				up					
X75861				up					3
W28869	up						up		3
L06139		down				down		down	
X93512						up	up		
S95936	up			up		down		down	3
M55153				down					3
L12350						down			
L12350		down				down			
AJ133115		down				down			
M24748	up					up			
X97544				up					3
X97544				up					3
L27476						down		down	

AB028950							
AI688299							
R16035	up			up	down	down	3
U81006				up			3
M92383							
D38305				up		down	
D13641				up			3
U09477	up						3
M12125				down			3
M12125				down	down		3
U12595	up						3
X00437	down			down			
AB011089				up			3
AF084260				up			3
AJ133769					up	up	
X89066	up						3
AF042181					up	up	
AF001294				up		down	
AF035283			down		down		
X06956	up		up		up		
X06956	up		up	up			2
AF005392	up		up	up			
X01703	up			up			
AF035316				up	down	down	3
X02344	up					down	
U47634	up						3
X00734	up					up	
S75463	up						
D17517				up		down	3
U18934				up			
AI310002				up			
AF075599				up			2
U67122			up		up	up	
X04741	up		up	up			3
U27460			up	up			3
U30930			down	up	down		3
T79616			up				3

J04973			up	up				2, 3
L32977				up				
AA526497			up					3
U30888					up			
M36200					up			
AL050223				up				3
U56833				up				3
L06132			up					3
AJ002428	up		up		up			
L08666				up				3
AF024710			down		down			
AF022375			down		down			
M63978			down			up		
X51521					down			
Z19554			down		down		down	3
AF060902			up		up			
D26068	down							2
AB011113			up				down	
W27944			down		down			
W26496			down		down		down	
D14661				up				
Y08614				up				3
J04977				up		up		3
M30938	up							
U89436	up		up			up		3
X56468				up				3
X56468	up			up				3
M92843			down					
U07802					down	down	down	2, 3
X78992			down		down	down	down	
AL050276			down		down	down		
L11672	down							
AD000092	up		up					
V00599				up			down	
X55989				down				
S81916		up	up					
J00153	down			down	down	down	up	

AL049423							
AF052148	down			down			
AL022101	up			up		up	
AL118582					down		down
AI095508						up	2
W28612			down		down		down
AL049378	down			down			
AI700633			down	up	down		
AF070536	down			down			
AF052119			up	up	up		
AL080113				up			
AL049265			down				
AL049390					down		down
AF070577				up			2
AI827895					down		down
X95677					up	up	
AL080093				up			
AL049969			down		down		down
AF052141			up	up	up		
L27560					down		
W27522				up			
AL022718	up						down
AJ005694				down			3
AL120687					up	up	
AL046322	up				up		
AW043812				down			
H12054					up		
AC003007			up		up		
J03071	down				down		
M57417	down					down	down
M33764	up						
M58028	up						
X74262	up						
U19796	up						
U22028	down						
X79568				down			
M55914	up						

M21154	up						
M10905					down		
U33429					up		
AB014539					down		
X63432			up			up	
X56841					down		
Y00067			up				
AF007140	up						
X13839			down		down		
AF023268			up				
AF053356	down						
U37122		down			down		
AB000450	up						
AI126004			up				
AF002668	up						
X54304					down		
U57843	down						
X02344	up						
X04098	up		up			up	
U96074	up						
D32053	up		up				
U59632			down				
X14346	down						
Z98046	up						
AL096737					down		
AB014598					down		
U17886			up				
AI986201			up				
AL080181					down		
AB014514	up						
R92331					down		
U24183			up				
D00860							
U09510	up						
AI635895			up				
U66033			up				
U51334					down		
					down		

Table 5: RT-PCR Confirmation

Gene Bank Acc. No.	Gene Name	AnCg BP	AnCg MD	DLPFC BP	DLPFC MD
AB020629	ABCA8				down
U37122	ADD3				down
X63575	ATP2B2			down	
X71490	ATP6V0D1		up		
U66879	BAD	down			
J04046	CALM3			up	
AF112471	CAMK2B		up		
D50310	CCNI	up			
AL080061	CLIC4				down
S74445	CRABP1		up		up
U37143	CYP2J2		down		down
M34309	ERBB3				down
M80634 (SEQ ID NO:1)	FGFR2				down
M64347	FGFR3				down
L08485	GABRA5	up			
AF016917	GABRD	down		down	
AC004131	GPRC5B		down		down
AB006626	HDAC4		up		
L19182	IGFBP7	down		down	
X57206	ITPKB				down
X77196	LAMP2				down
M29273	MAG		down		down
X76220	MAL		down		down
Z24725	MIG2				down
AB018342	MYO10				down
M12267	OAT		down		down
Y10275	PSPH				down
AJ001612	PSPHL	down		down	
AB007943	RAP1GAI				down
AF060877	RGS20		down		down
AL049538	RIN2				down
AB018305	SPON1		down		down
U58334	TP53BP2		down		down
U28964	YWHAZ	up			

Table 8: Selected Potential Druggable Targets

Genbank Accession No.	Gene Name	Target category	Description
AB020629	ABCA8	transporter	ATP-binding cassette, sub-family A (ABC1), member 8
X63575	ATP2B2	transporter	ATPase, Ca++ transporting, plasma membrane 2
X71490	ATP6V0D1	transporter	ATPase, H+ transporting, lysosomal 38kDa, V0 subunit d isoform 1
S74445	CRABP1	transporter	cellular retinoic acid binding protein 1
M34309	ERBB3	tyrosine kinase receptor	v-erb-b2 erythroblastic leukemia viral oncogene homolog 3 (avian)
M80634 (SEQ ID NO:1)	FGFR2	tyrosine kinase receptor	fibroblast growth factor receptor 2 (bacteria-expressed kinase, keratinocyte growth factor receptor, craniofacial dysostosis 1, Crouzon syndrome, Pfeiffer syndrome, Jackson-Weiss syndrome)
M64347	FGFR3	tyrosine kinase receptor	fibroblast growth factor receptor 3 (achondroplasia, thanatophoric dwarfism)
AC004131	GPCR5B	GPCR	G protein-coupled receptor, family C, group 5, member B
X77196	LAMP2	ligand for cell adhesion molecule	lysosomal-associated membrane protein 2
U37122	ADD3	regulator of kinase	adducin 3 (gamma)
U66879	BAD	regulator of protease	BCL2-antagonist of cell death
AB007943	RAP1GA1	regulator of kinase	RAP1, GTPase activating protein 1
AF060877	RGS20	regulator of GTPase	regulator of G-protein signalling 20
AL049538	RIN2	regulator of GTPase	Ras and Rab interactor 2
U58334	TP53BP2	regulator of protein degradation	tumor protein p53 binding protein, 2
U28964	YWHAZ	regulator of enzyme	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, zeta polypeptide
J04046	CALM3	kinase	calmodulin 3 (phosphorylase kinase, delta)
AF112471	CAMK2B	kinase	calcium/calmodulin-dependent protein kinase (CaM kinase) II beta
D50310	CCNI	regulator of kinase	cyclin I

U37143	CYP2J2	monooxygenase	cytochrome P450, family 2, subfamily J, polypeptide 2
AB006626	HDAC4	enzyme	histone deacetylase 4
X57206	ITPKB	kinase	inositol 1,4,5-trisphosphate 3-kinase B
M12267	OAT	enzyme	ornithine aminotransferase (gyrate atrophy)
Y10275	PSPH	enzyme	phosphoserine phosphatase
AJ001612	PSPHL	enzyme	phosphoserine phosphatase-like
AL080061	CLIC4	channel	chloride intracellular channel 4
L08485	GABRA5	channel	gamma-aminobutyric acid (GABA) A receptor, alpha 5
AF016917	GABRD	channel	gamma-aminobutyric acid (GABA) A receptor, delta
L19182	IGFBP7	regulator of receptor ligand	insulin-like growth factor binding protein 7
M29273	MAG	myelination	myelin associated glycoprotein
X76220	MAL	myelination	mal, T-cell differentiation protein
Z24725	MIG2	signal transduction	mitogen inducible 2
AB018342	MYO10	partner for calmodulin-like protein	myosin X
AB018305	SPON1	axon growth guidance	spondin 1, (f-spondin) extracellular matrix protein